

What is claimed is:

1. A medical material for use in therapeutic agent delivery to a tooth or periodontal tissue by means of ultrasonic energy, comprising a mixture of microbubbles and a therapeutic agent consisting of at least one of a plasmid DNA and a drug with a therapeutic effect on a tooth or periodontal disease.
2. The medical material as defined in claim 1, which contains said microbubbles in the range of 0.001 to 10 %.
3. An agent delivery apparatus for delivering a therapeutic agent to a tooth or periodontal tissue, comprising an ultrasonic transducer having a tip provided with a detachable ultrasonic emitter for emitting an ultrasonic wave to a target site of a tooth or periodontal tissue, and a medical-material ejecting device for supplying to said target site the medical material as defined in claim 1.
4. The agent delivery apparatus as defined in claim 3, which further comprises a manual control unit including means for adjusting the frequency and intensity of the ultrasonic wave to be generated from said ultrasonic transducer, whereby either one of a plurality of oscillation directions in said ultrasonic emitter can be selected according to changes of said frequency.